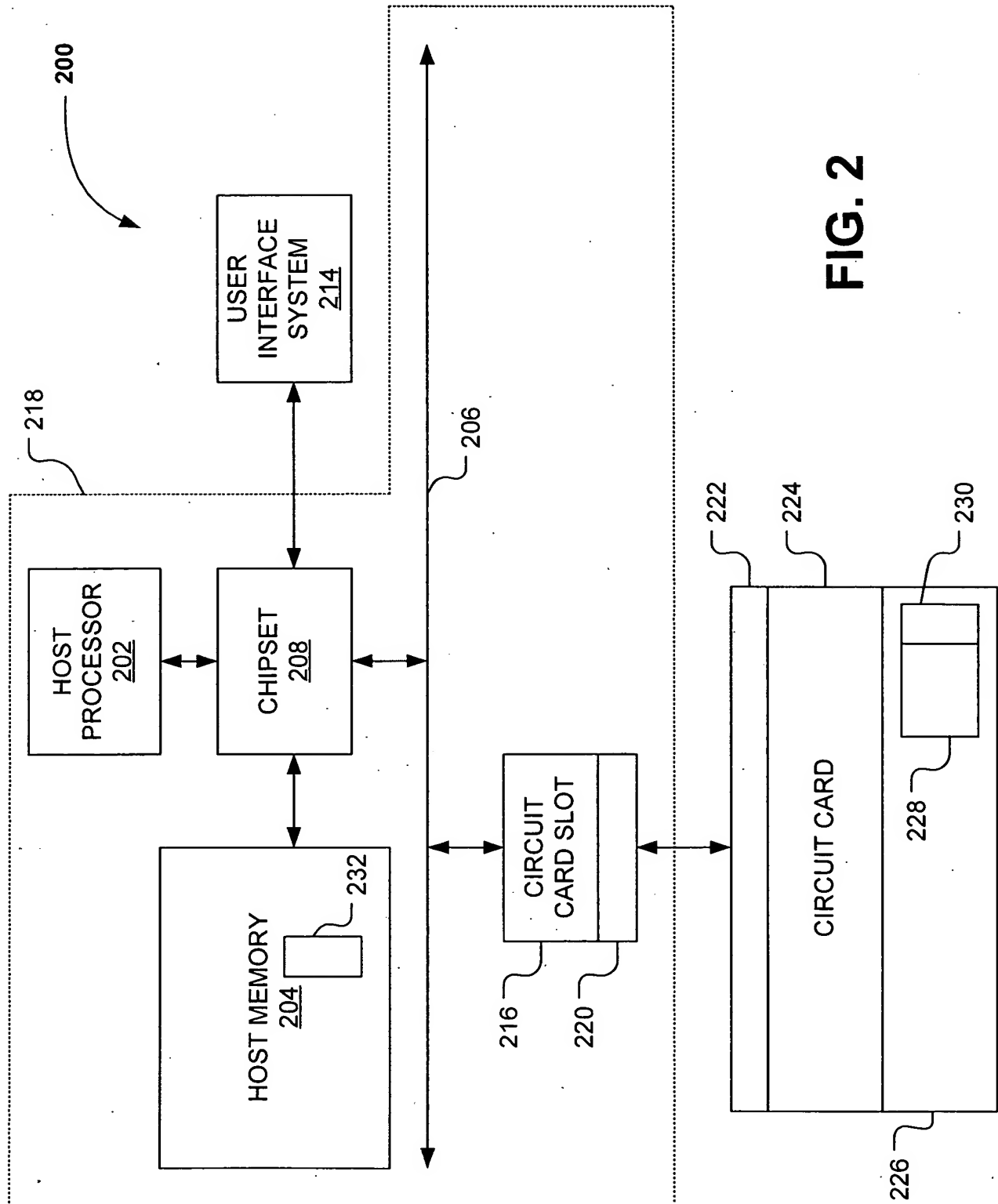


FIG. 1



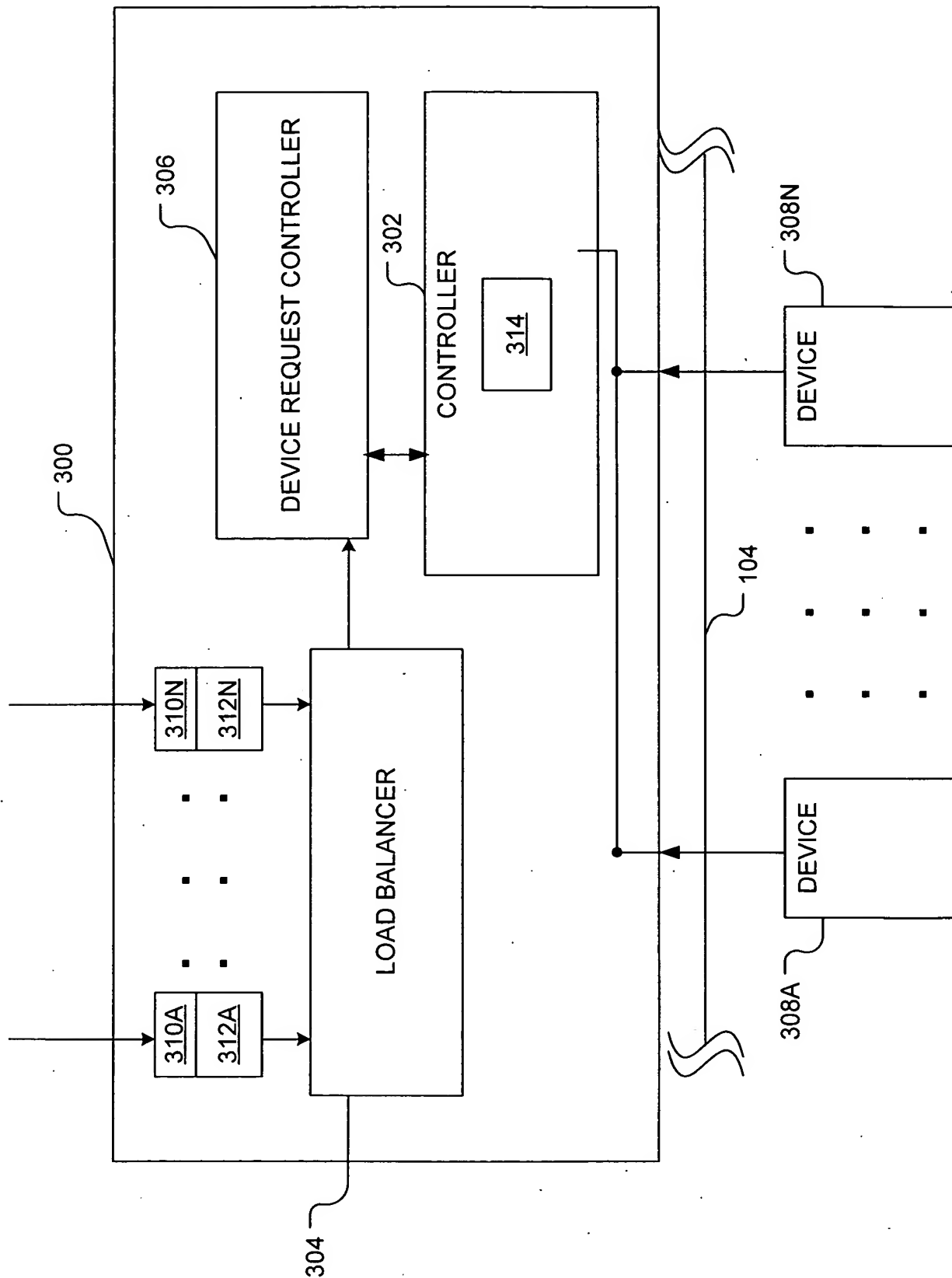


FIG. 3

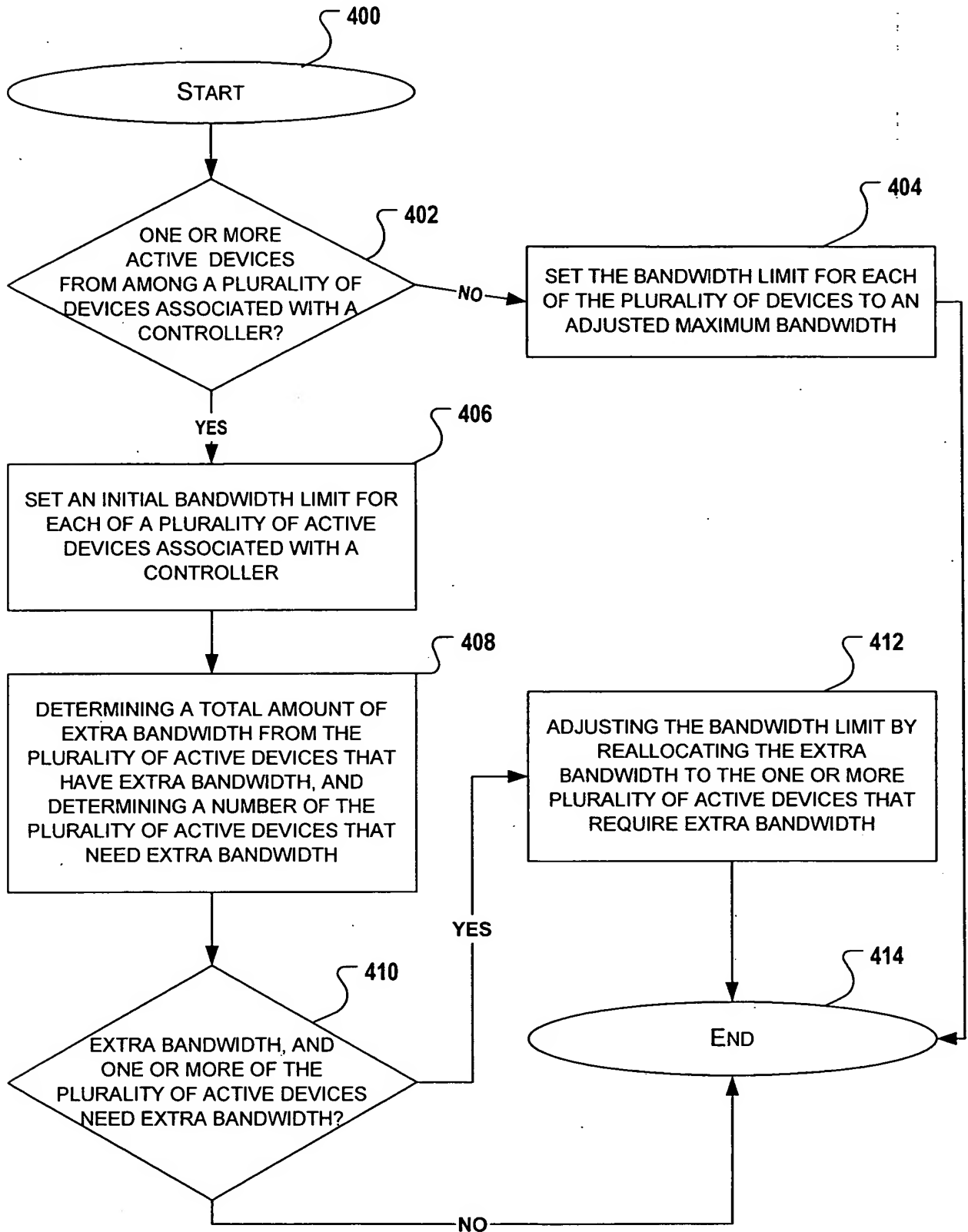


FIG. 4

MAX BANDWIDTH = 82 560	RES BANDWIDTH = 2 562	MIN BANDWIDTH = 10 564	DEVICE COUNT = 4 566
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500	502	504	506	508
PRIORITY[500] = 0 (510)	PRIORITY[502] = 0 (520)	PRIORITY[504] = 0 (530)	PRIORITY[506] = 0 (540)	PRIORITY[508] = 0 (550)
TOTAL REQUESTED BANDWIDTH[500] = 10 (512)	TOTAL REQUESTED BANDWIDTH[502] = 5 (522)	TOTAL REQUESTED BANDWIDTH[504] = 60 (532)	TOTAL REQUESTED BANDWIDTH[506] = 50 (542)	TOTAL REQUESTED BANDWIDTH[508] = 0 (552)
QUEUE BANDWIDTH[500] = 10 (514)	QUEUE BANDWIDTH[502] = 0 (524)	QUEUE BANDWIDTH[504] = 40 (534)	QUEUE BANDWIDTH[506] = 30 (544)	QUEUE BANDWIDTH[508] = 0 (554)
ACTIVE BANDWIDTH[500] = 0 516	ACTIVE BANDWIDTH[502] = 5 526	ACTIVE BANDWIDTH[504] = 20 536	ACTIVE BANDWIDTH[506] = 20 546	ACTIVE BANDWIDTH[508] = 0 556

FIG. 5

MAX BANDWIDTH = 82 <u>560</u>	RES BANDWIDTH = 2 <u>562</u>	MIN BANDWIDTH = 10 <u>564</u>	DEVICE COUNT = 4 <u>566</u>
AVG BANDWIDTH = 20 <u>610</u>			
500	502	504	506
PRIORITY[500] = 0 ( <u>510</u> )	PRIORITY[502] = 0 ( <u>520</u> )	PRIORITY[504] = 0 ( <u>530</u> )	PRIORITY[506] = 0 ( <u>540</u> )
TOTAL REQUESTED BANDWIDTH[500] = 10 ( <u>512</u> )	TOTAL REQUESTED BANDWIDTH[502] = 5 ( <u>522</u> )	TOTAL REQUESTED BANDWIDTH[504] = 60 ( <u>532</u> )	TOTAL REQUESTED BANDWIDTH[506] = 50 ( <u>542</u> )
QUEUE BANDWIDTH[500] = 10 ( <u>514</u> )	QUEUE BANDWIDTH[502] = 0 ( <u>524</u> )	QUEUE BANDWIDTH[504] = 40 ( <u>534</u> )	QUEUE BANDWIDTH[506] = 30 ( <u>544</u> )
ACTIVE BANDWIDTH[500] = 0 <u>516</u>	ACTIVE BANDWIDTH[502] = 5 <u>526</u>	ACTIVE BANDWIDTH[504] = 20 <u>536</u>	ACTIVE BANDWIDTH[506] = 20 <u>546</u>
ACTIVE BANDWIDTH LIMIT[500] = 20 <u>600</u>	ACTIVE BANDWIDTH LIMIT[502] = 20 <u>602</u>	ACTIVE BANDWIDTH LIMIT[504] = 20 <u>604</u>	ACTIVE BANDWIDTH LIMIT[506] = 20 <u>606</u>
508	508	508	508
PRIORITY[508] = 0 ( <u>550</u> )	PRIORITY[508] = 0 ( <u>550</u> )	PRIORITY[508] = 0 ( <u>550</u> )	PRIORITY[508] = 0 ( <u>550</u> )
TOTAL REQUESTED BANDWIDTH[508] = 0 ( <u>552</u> )	TOTAL REQUESTED BANDWIDTH[508] = 0 ( <u>552</u> )	TOTAL REQUESTED BANDWIDTH[508] = 0 ( <u>552</u> )	TOTAL REQUESTED BANDWIDTH[508] = 0 ( <u>552</u> )
QUEUE BANDWIDTH[508] = 0 ( <u>554</u> )	QUEUE BANDWIDTH[508] = 0 ( <u>554</u> )	QUEUE BANDWIDTH[508] = 0 ( <u>554</u> )	QUEUE BANDWIDTH[508] = 0 ( <u>554</u> )
ACTIVE BANDWIDTH[508] = 0 <u>556</u>	ACTIVE BANDWIDTH[508] = 0 <u>556</u>	ACTIVE BANDWIDTH[508] = 0 <u>556</u>	ACTIVE BANDWIDTH[508] = 0 <u>556</u>
ACTIVE BANDWIDTH LIMIT[508] = 0 <u>608</u>	ACTIVE BANDWIDTH LIMIT[508] = 0 <u>608</u>	ACTIVE BANDWIDTH LIMIT[508] = 0 <u>608</u>	ACTIVE BANDWIDTH LIMIT[508] = 0 <u>608</u>

FIG. 6

MAX BANDWIDTH = 82 <u>560</u>	RES BANDWIDTH = 2 <u>562</u>	MIN BANDWIDTH = 10 <u>564</u>	DEVICE COUNT = 2 <u>566</u>																															
AVG BANDWIDTH = 20 <u>610</u>	TOTAL EXTRA BANDWIDTH = 25 <u>712</u>		PRIORITY COUNT = 0 <u>710</u>																															
<table><tr><td><u>500</u></td></tr><tr><td>PRIORITY[500] = 0 (<u>510</u>)</td></tr><tr><td>TOTAL REQUESTED BANDWIDTH[500] = 10 (<u>512</u>) GIVE BW = 10 (<u>700</u>)</td></tr><tr><td>QUEUE BANDWIDTH[500] = 10 (<u>514</u>)</td></tr><tr><td>ACTIVE BANDWIDTH[500] = 0 <u>516</u></td></tr><tr><td>ACTIVE BANDWIDTH LIMIT[500] = 20 <u>600</u></td></tr></table>	<u>500</u>	PRIORITY[500] = 0 ( <u>510</u> )	TOTAL REQUESTED BANDWIDTH[500] = 10 ( <u>512</u> ) GIVE BW = 10 ( <u>700</u> )	QUEUE BANDWIDTH[500] = 10 ( <u>514</u> )	ACTIVE BANDWIDTH[500] = 0 <u>516</u>	ACTIVE BANDWIDTH LIMIT[500] = 20 <u>600</u>	<table><tr><td><u>502</u></td></tr><tr><td>PRIORITY[502] = 0 (<u>520</u>)</td></tr><tr><td>TOTAL REQUESTED BANDWIDTH[502] = 5 (<u>522</u>) GIVE BW = 15 (<u>702</u>)</td></tr><tr><td>QUEUE BANDWIDTH[502] = 0 (<u>524</u>)</td></tr><tr><td>ACTIVE BANDWIDTH[502] = 5 <u>526</u></td></tr><tr><td>ACTIVE BANDWIDTH LIMIT[502] = 20 <u>602</u></td></tr></table>	<u>502</u>	PRIORITY[502] = 0 ( <u>520</u> )	TOTAL REQUESTED BANDWIDTH[502] = 5 ( <u>522</u> ) GIVE BW = 15 ( <u>702</u> )	QUEUE BANDWIDTH[502] = 0 ( <u>524</u> )	ACTIVE BANDWIDTH[502] = 5 <u>526</u>	ACTIVE BANDWIDTH LIMIT[502] = 20 <u>602</u>	<table><tr><td><u>504</u></td></tr><tr><td>PRIORITY[504] = 0 (<u>530</u>)</td></tr><tr><td>TOTAL REQUESTED BANDWIDTH[504] = 60 (<u>532</u>)</td></tr><tr><td>QUEUE BANDWIDTH[504] = 40 (<u>534</u>)</td></tr><tr><td>ACTIVE BANDWIDTH[504] = 20 <u>536</u></td></tr><tr><td>ACTIVE BANDWIDTH LIMIT[504] = 20 <u>604</u></td></tr></table>	<u>504</u>	PRIORITY[504] = 0 ( <u>530</u> )	TOTAL REQUESTED BANDWIDTH[504] = 60 ( <u>532</u> )	QUEUE BANDWIDTH[504] = 40 ( <u>534</u> )	ACTIVE BANDWIDTH[504] = 20 <u>536</u>	ACTIVE BANDWIDTH LIMIT[504] = 20 <u>604</u>	<table><tr><td><u>506</u></td></tr><tr><td>PRIORITY[506] = 0 (<u>540</u>)</td></tr><tr><td>TOTAL REQUESTED BANDWIDTH[506] = 50 (<u>542</u>)</td></tr><tr><td>QUEUE BANDWIDTH[506] = 30 (<u>544</u>)</td></tr><tr><td>ACTIVE BANDWIDTH[506] = 20 <u>546</u></td></tr><tr><td>ACTIVE BANDWIDTH LIMIT[506] = 20 <u>606</u></td></tr></table>	<u>506</u>	PRIORITY[506] = 0 ( <u>540</u> )	TOTAL REQUESTED BANDWIDTH[506] = 50 ( <u>542</u> )	QUEUE BANDWIDTH[506] = 30 ( <u>544</u> )	ACTIVE BANDWIDTH[506] = 20 <u>546</u>	ACTIVE BANDWIDTH LIMIT[506] = 20 <u>606</u>	<table><tr><td><u>508</u></td></tr><tr><td>PRIORITY[508] = 0 (<u>550</u>)</td></tr><tr><td>TOTAL REQUESTED BANDWIDTH[508] = 0 (<u>552</u>)</td></tr><tr><td>QUEUE BANDWIDTH[508] = 0 (<u>554</u>)</td></tr><tr><td>ACTIVE BANDWIDTH[508] = 0 <u>556</u></td></tr><tr><td>ACTIVE BANDWIDTH LIMIT[508] = 0 <u>608</u></td></tr></table>	<u>508</u>	PRIORITY[508] = 0 ( <u>550</u> )	TOTAL REQUESTED BANDWIDTH[508] = 0 ( <u>552</u> )	QUEUE BANDWIDTH[508] = 0 ( <u>554</u> )	ACTIVE BANDWIDTH[508] = 0 <u>556</u>	ACTIVE BANDWIDTH LIMIT[508] = 0 <u>608</u>
<u>500</u>																																		
PRIORITY[500] = 0 ( <u>510</u> )																																		
TOTAL REQUESTED BANDWIDTH[500] = 10 ( <u>512</u> ) GIVE BW = 10 ( <u>700</u> )																																		
QUEUE BANDWIDTH[500] = 10 ( <u>514</u> )																																		
ACTIVE BANDWIDTH[500] = 0 <u>516</u>																																		
ACTIVE BANDWIDTH LIMIT[500] = 20 <u>600</u>																																		
<u>502</u>																																		
PRIORITY[502] = 0 ( <u>520</u> )																																		
TOTAL REQUESTED BANDWIDTH[502] = 5 ( <u>522</u> ) GIVE BW = 15 ( <u>702</u> )																																		
QUEUE BANDWIDTH[502] = 0 ( <u>524</u> )																																		
ACTIVE BANDWIDTH[502] = 5 <u>526</u>																																		
ACTIVE BANDWIDTH LIMIT[502] = 20 <u>602</u>																																		
<u>504</u>																																		
PRIORITY[504] = 0 ( <u>530</u> )																																		
TOTAL REQUESTED BANDWIDTH[504] = 60 ( <u>532</u> )																																		
QUEUE BANDWIDTH[504] = 40 ( <u>534</u> )																																		
ACTIVE BANDWIDTH[504] = 20 <u>536</u>																																		
ACTIVE BANDWIDTH LIMIT[504] = 20 <u>604</u>																																		
<u>506</u>																																		
PRIORITY[506] = 0 ( <u>540</u> )																																		
TOTAL REQUESTED BANDWIDTH[506] = 50 ( <u>542</u> )																																		
QUEUE BANDWIDTH[506] = 30 ( <u>544</u> )																																		
ACTIVE BANDWIDTH[506] = 20 <u>546</u>																																		
ACTIVE BANDWIDTH LIMIT[506] = 20 <u>606</u>																																		
<u>508</u>																																		
PRIORITY[508] = 0 ( <u>550</u> )																																		
TOTAL REQUESTED BANDWIDTH[508] = 0 ( <u>552</u> )																																		
QUEUE BANDWIDTH[508] = 0 ( <u>554</u> )																																		
ACTIVE BANDWIDTH[508] = 0 <u>556</u>																																		
ACTIVE BANDWIDTH LIMIT[508] = 0 <u>608</u>																																		

FIG. 7

MAX BANDWIDTH = 82 <u>560</u>	RES BANDWIDTH = 2 <u>562</u>	MIN LOAD = 10 <u>564</u>	DEVICE COUNT = 2 <u>560</u>
AVG BANDWIDTH = 20 <u>610</u>	TOTAL EXTRA BANDWIDTH = 25 <u>712</u>	ADD COUNT = 12 <u>800</u>	PRIORITY COUNT = 0 <u>710</u>
<u>500</u>	<u>502</u>	<u>506</u>	<u>508</u>
PRIORITY[500] = 0 ( <u>510</u> )	PRIORITY[502] = 0 ( <u>520</u> )	PRIORITY[506] = 0 ( <u>540</u> )	PRIORITY[508] = 0 ( <u>550</u> )
TOTAL REQUESTED BANDWIDTH[500] = 10 ( <u>512</u> ) GIVE BW = 10 ( <u>700</u> )	TOTAL REQUESTED BANDWIDTH[502] = 5 ( <u>522</u> ) GIVE BW = 15 ( <u>702</u> )	TOTAL REQUESTED BANDWIDTH[506] = 50 ( <u>542</u> )	TOTAL REQUESTED BANDWIDTH[508] = 0 ( <u>552</u> )
QUEUE BANDWIDTH[500] = 10 ( <u>514</u> )	QUEUE BANDWIDTH[502] = 0 ( <u>524</u> )	QUEUE BANDWIDTH[506] = 30 ( <u>544</u> )	QUEUE BANDWIDTH[508] = 0 ( <u>554</u> )
ACTIVE BANDWIDTH[500] = 0 <u>516</u>	ACTIVE BANDWIDTH[502] = 5 <u>526</u>	ACTIVE BANDWIDTH[506] = 20 <u>546</u>	ACTIVE BANDWIDTH[508] = 0 <u>556</u>
ACTIVE BANDWIDTH LIMIT[500] = 10 <u>600</u>	ACTIVE BANDWIDTH LIMIT[502] = 5 <u>602</u>	ACTIVE BANDWIDTH LIMIT[506] = 32 <u>606</u>	ACTIVE BANDWIDTH LIMIT[508] = 0 <u>608</u>

FIG. 8



MAX BANDWIDTH = 82 960	RES BANDWIDTH = 2 962	MIN BANDWIDTH = 10 964	DEVICE COUNT = 4 966
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900	902	904	906	908
PRIORITY[900] = 0 (910)	PRIORITY[902] = 0 (920)	PRIORITY[904] = 0 (930)	PRIORITY[906] = 1 (940)	PRIORITY[908] = 0 (950)
TOTAL REQUESTED BANDWIDTH[900] = 10 (912)	TOTAL REQUESTED BANDWIDTH[902] = 5 (922)	TOTAL REQUESTED BANDWIDTH[904] = 60 (932)	TOTAL REQUESTED BANDWIDTH[906] = 50 (942)	TOTAL REQUESTED BANDWIDTH[908] = 0 (952)
QUEUE BANDWIDTH[900] = 10 (914)	QUEUE BANDWIDTH[902] = 0 (924)	QUEUE BANDWIDTH[904] = 40 (934)	QUEUE BANDWIDTH[906] = 30 (944)	QUEUE BANDWIDTH[908] = 0 (954)
ACTIVE BANDWIDTH[900] = 0 916	ACTIVE BANDWIDTH[902] = 5 926	ACTIVE BANDWIDTH[904] = 20 936	ACTIVE BANDWIDTH[906] = 20 946	ACTIVE BANDWIDTH[908] = 0 956

FIG. 9

MAX BANDWIDTH = 82 960	RES BANDWIDTH = 2 962	MIN BANDWIDTH = 10 964	DEVICE COUNT = 4 966
AVG BANDWIDTH = 20 1010			
900	902	904	906
PRIORITY[900] = 0 (910)	PRIORITY[902] = 0 (920)	PRIORITY[904] = 0 (930)	PRIORITY[906] = 1 (940)
TOTAL REQUESTED BANDWIDTH[900] = 10 (912)	TOTAL REQUESTED BANDWIDTH[902] = 5 (922)	TOTAL REQUESTED BANDWIDTH[904] = 60 (932)	TOTAL REQUESTED BANDWIDTH[906] = 80 (942)
QUEUE BANDWIDTH[900] = 10 (914)	QUEUE BANDWIDTH[902] = 0 (924)	QUEUE BANDWIDTH[904] = 40 (934)	QUEUE BANDWIDTH[906] = 30 (944)
ACTIVE BANDWIDTH[900] = 0 916	ACTIVE BANDWIDTH[902] = 5 926	ACTIVE BANDWIDTH[904] = 20 936	ACTIVE BANDWIDTH[906] = 20 946
ACTIVE BANDWIDTH LIMIT[900] = 20 1000	ACTIVE BANDWIDTH LIMIT[902] = 20 1002	ACTIVE BANDWIDTH LIMIT[904] = 20 1004	ACTIVE BANDWIDTH LIMIT[906] = 20 1006
908	908	908	908
PRIORITY[908] = 0 (950)	PRIORITY[908] = 0 (950)	PRIORITY[908] = 0 (950)	PRIORITY[908] = 0 (950)
TOTAL REQUESTED BANDWIDTH[908] = 0 (952)	TOTAL REQUESTED BANDWIDTH[908] = 0 (952)	TOTAL REQUESTED BANDWIDTH[908] = 0 (952)	TOTAL REQUESTED BANDWIDTH[908] = 0 (952)
QUEUE BANDWIDTH[908] = 0 (954)	QUEUE BANDWIDTH[908] = 0 (954)	QUEUE BANDWIDTH[908] = 0 (954)	QUEUE BANDWIDTH[908] = 0 (954)
ACTIVE BANDWIDTH[908] = 0 956	ACTIVE BANDWIDTH[908] = 0 956	ACTIVE BANDWIDTH[908] = 0 956	ACTIVE BANDWIDTH[908] = 0 956
ACTIVE BANDWIDTH LIMIT[908] = 0 1008	ACTIVE BANDWIDTH LIMIT[908] = 0 1008	ACTIVE BANDWIDTH LIMIT[908] = 0 1008	ACTIVE BANDWIDTH LIMIT[908] = 0 1008

FIG. 10

11/12

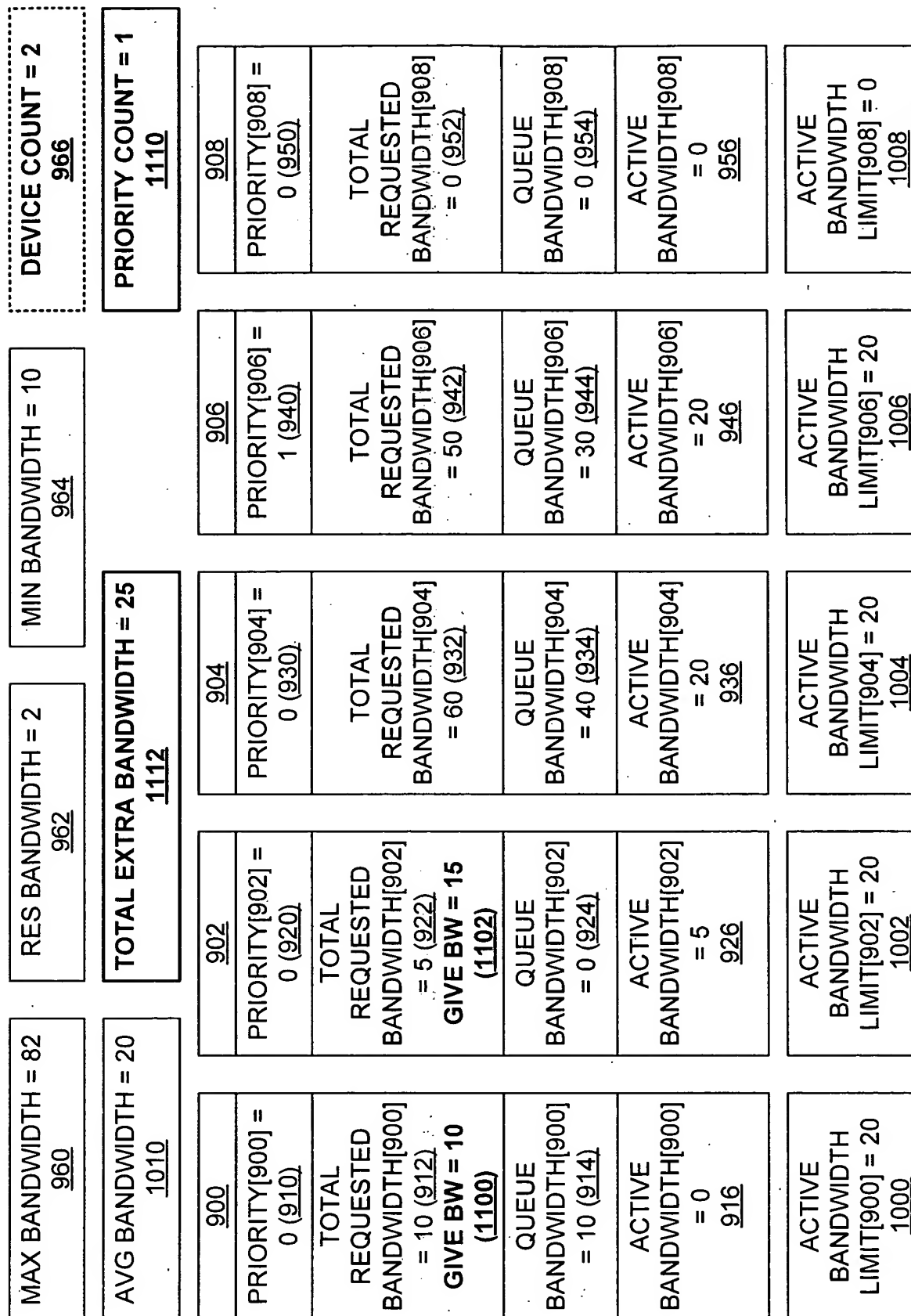


FIG. 11

MAX BANDWIDTH = 82 <u>960</u>	RES BANDWIDTH = 2 <u>962</u>	MIN BANDWIDTH = 10 <u>964</u>	DEVICE COUNT = 2 <u>966</u>	
AVG BANDWIDTH = 20 <u>1010</u>	TOTAL EXTRA BANDWIDTH = 25 <u>1112</u>	ADD COUNT = 25 <u>1200</u>	PRIORITY COUNT = 1 <u>1110</u>	
<div>900</div> <div>PRIORITY[900] = 0 (<u>910</u>)</div> <div>TOTAL REQUESTED BANDWIDTH[900] = 10 (<u>912</u>) GIVE BW = 10 (<u>1100</u>)</div> <div>QUEUE BANDWIDTH[900] = 10 <u>044</u></div> <div>ACTIVE BANDWIDTH[900] = 0 <u>916</u></div> <div>ACTIVE BANDWIDTH LIMIT[900] = 10 <u>1000</u></div>	<div>902</div> <div>PRIORITY[902] = 0 (<u>920</u>)</div> <div>TOTAL REQUESTED BANDWIDTH[902] = 5 (<u>922</u>) GIVE BW = 15 (<u>1102</u>)</div> <div>QUEUE BANDWIDTH[902] = 0 <u>024</u></div> <div>ACTIVE BANDWIDTH[902] = 5 <u>926</u></div> <div>ACTIVE BANDWIDTH LIMIT[902] = 5 <u>1002</u></div>	<div>904</div> <div>PRIORITY[904] = 0 (<u>930</u>)</div> <div>TOTAL REQUESTED BANDWIDTH[904] = 60 (<u>932</u>)</div> <div>QUEUE BANDWIDTH[904] = 40 <u>024</u></div> <div>ACTIVE BANDWIDTH[904] = 20 <u>936</u></div> <div>ACTIVE BANDWIDTH LIMIT[904] = 20 <u>1004</u></div>	<div>906</div> <div>PRIORITY[906] = 1 (<u>940</u>)</div> <div>TOTAL REQUESTED BANDWIDTH[906] = 50 (<u>942</u>)</div> <div>QUEUE BANDWIDTH[906] = 30 <u>044</u></div> <div>ACTIVE BANDWIDTH[906] = 20 <u>946</u></div> <div>ACTIVE BANDWIDTH LIMIT[906] = 45 <u>1006</u></div>	<div>908</div> <div>PRIORITY[908] = 0 (<u>950</u>)</div> <div>TOTAL REQUESTED BANDWIDTH[908] = 0 (<u>952</u>)</div> <div>QUEUE BANDWIDTH[908] = 0 <u>054</u></div> <div>ACTIVE BANDWIDTH[908] = 0 <u>956</u></div> <div>ACTIVE BANDWIDTH LIMIT[908] = 0 <u>1008</u></div>

FIG. 12